

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (currently amended): A heat pipe unit comprising:

a tank including a pipe of circular cross section, said pipe being provided with a groove on an inner surface thereof, and said groove being inclined at an angle  $\theta$  of less than 90° relative to an axial direction of said tank and having a pitch of 4 mm or less in the axial direction of said tank;

a plurality of pipes provided upstanding on and joined to a side of said tank to be in communication with said tank, said plurality of pipes being closed at an end thereof opposite an end where said plurality of pipes are joined to said tank;

a working fluid sealed in said tank and movable between said plurality of pipes and said tank[[,]]; and

a plurality of fins each provided on said plurality of pipes.

Claim 2 (original): The heat pipe unit according to claim 1, wherein said tank has a larger cross-sectional area than that of said plurality of pipes.

Claim 3 (canceled)

Claim 4 (currently amended): The heat pipe unit according to claim [[3]] 1, wherein said groove has a depth of 0.01 mm to 0.5 mm ~~and a pitch of 4 mm or less.~~

Claim 5 (currently amended): A heat pipe type heat exchanger comprising:

a tank including a pipe of circular cross section, said pipe being provided with a groove on an inner surface thereof, and said groove being inclined at an angle  $\theta$  of less than 90° relative to an axial direction of said tank and having a pitch of 4 mm or less in the axial direction of said tank;

a plurality of pipes provided upstanding on and joined to a side of said tank to be in communication with said tank, said plurality of pipes being closed at an end thereof opposite an end where said plurality of pipes are joined to said tank;

a working fluid sealed in said tank and movable between said plurality of pipes and said tank;

a base block of metal having said tank embedded therein; and

a plurality of fins each provided on said plurality of pipes.

Claim 6 (original): The heat pipe type heat exchanger according to claim 5, wherein said tank has a larger cross-sectional area than that of said plurality of pipes.

Claim 7 (canceled)

Claim 8 (currently amended): The heat pipe type heat exchanger according to claim [[7]] 5, wherein said groove has a depth of 0.01 mm to 0.5 mm ~~and a pitch of 4 mm or less~~.

Claim 9 (currently amended): A heat pipe type heat exchanger comprising:

a plurality of tanks, at least one of said plurality of tanks including a pipe of circular cross section, said pipe being provided with a groove on an inner surface thereof, and said groove being inclined at an angle  $\theta$  of less than 90° relative to an axial direction of said tank and having a pitch of 4 mm or less in the axial direction of said tank;

a plurality of pipes provided upstanding on and joined to a side of each of said tanks to be in communication with a corresponding one of said tanks, said plurality of pipes being closed at an end thereof opposite an end where said plurality of pipes are joined to a corresponding one of said tanks;

a working fluid sealed in each of said tanks and movable between said plurality of pipes and the corresponding one of said tanks;

a base block of metal having said plurality of tanks embedded therein; and

a plurality of fins provided on at least some of said plurality of pipes of one or more of said plurality of tanks.

Claim 10 (canceled)

Claim 11 (currently amended): The heat pipe type heat exchanger according to claim [[10]] 2, wherein said groove has a depth of 0.01 mm to 0.5 mm ~~and a pitch of 4 mm or less~~.

Claim 12 (original): The heat pipe type heat exchanger according to claim 9, wherein said plurality of pipes of one or more of said plurality of tanks are arranged in top view in a grid-like manner or in a staggered manner.

Claim 13 (original): The heat pipe type heat exchanger according to claim 5, wherein said tank is screwed to said base block with mounting hardware.

Claim 14 (original): The heat pipe type heat exchanger according to claim 9, wherein each of said tanks is screwed to said base block with mounting hardware.

Claim 15 (currently amended): A heat pipe type heat exchanger comprising:  
a tank including a pipe of circular cross section, said pipe being provided with a groove on an inner surface thereof, and said groove being inclined at an angle  $\theta$  of less than 90° relative to an axial direction of said tank and having a pitch of 4 mm or less in the axial direction of said tank;

a plurality of pipes provided upstanding on and joined to a side of said tank to be in communication with said tank, said plurality of pipes being closed at an end thereof opposite an end where said plurality of pipes are joined to said tank;

a working fluid sealed in said tank and movable between said plurality of pipes and said tank;

a base block of metal having said tank embedded therein; and

a plurality of fins provided on said plurality of pipes,

wherein said plurality of pipes are angled relative to said base block such that when said base block is mounted vertically, said plurality of pipes extend at an angle of  $5^{\circ}$  to  $10^{\circ}$  relative to a horizontal plane.

Claim 16 (original): The heat pipe type heat exchanger according to claim 15, wherein said tank has a larger cross-sectional area than that of said plurality of pipes.

Claim 17 (canceled)

Claim 18 (new): The heat pipe unit according to claim 1, wherein said angle  $\theta$  by which said groove is inclined relative to the axial direction of said tank is equal to or greater than  $21.98^{\circ}$  and less than  $90^{\circ}$ .

Claim 19 (new): The heat pipe type exchanger according to claim 5, wherein said angle  $\theta$  by which said groove is inclined relative to the axial direction of said tank is equal to or greater than  $21.98^{\circ}$  and less than  $90^{\circ}$ .

Claim 20 (new): The heat pipe type heat exchanger according to claim 9, wherein said angle  $\theta$  by which said groove is inclined relative to the axial direction of said tank is equal to or greater than  $21.98^{\circ}$  and less than  $90^{\circ}$ .

Claim 21 (new): The heat pipe type heat exchanger according to claim 15, wherein said angle  $\theta$  by which said groove is inclined relative to the axial direction of said tank is equal to or greater than  $21.98^{\circ}$  and less than  $90^{\circ}$ .